

Package ‘ami’

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Title Checks for Various Computing Environments

Version 0.2.0

Description A collection of lightweight functions that can be used to determine the computing environment in which your code is running. This includes operating systems, continuous integration (CI) environments, containers, and more.

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URL <https://github.com/briandconnelly/ami>,
<https://briandconnelly.github.io/ami/>

BugReports <https://github.com/briandconnelly/ami/issues>

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| | |
|--------|-------------------------------------|
| online | <i>Checks related to networking</i> |
|--------|-------------------------------------|

Description

online() uses [curl::has_internet](#) to check whether the machine is connected to the internet

Usage

```
online()
```

```
using_host(hostname)
```

Arguments

hostname String containing a hostname or hostnames to check

Value

A logical value

Examples

```
online()
using_host("somehost.fakedomain.com")
```

| | |
|-----------------|----------------------------|
| on_bioconductor | <i>Detect Bioconductor</i> |
|-----------------|----------------------------|

Description

Detect Bioconductor

Usage

```
on_bioconductor()
```

Value

A logical value

References

Check the Bioconductor Build System: <https://github.com/Bioconductor/BBS/>

Examples

```
on_bioconductor()
```

| | |
|---------|--------------------|
| on_cran | <i>Detect CRAN</i> |
|---------|--------------------|

Description

This function detects whether the current R environment is a CRAN machine or not. It returns FALSE if the NOT_CRAN environment variable used in "github/r-lib" packages like **devtools** and **testthat** is set to "true". If that variable is not set, the function examines other environment variables typically set on CRAN machines, as documented in the issue on this packages' GitHub repository at <https://github.com/briandconnelly/ami/issues/14>.

Usage

```
on_cran(cran_pattern = "_R_", n_cran_envvars = 5L)
```

Arguments

| | |
|----------------|--|
| cran_pattern | String to match against environment variables. |
| n_cran_envvars | If at least this number of environment variables match the cran_pattern, on_cran() returns TRUE. |

Value

A logical value

Examples

```
on_cran()
withr::with_envvar(
  list("NOT_CRAN" = "false", "_R_1" = 1, "_R_2" = 2),
  on_cran(n_cran_envvars = 2L)
)
```

| | |
|---------------|---|
| using_account | <i>Determine whether a given user account is being used</i> |
|---------------|---|

Description

Determine whether a given user account is being used

Usage

```
using_account(username)
```

Arguments

username Username to check for

Value

A logical value

Examples

```
using_account("root")
```

| | |
|----------|---|
| using_ci | <i>Detect whether running in a CI environment</i> |
|----------|---|

Description

using_ci() reports whether a continuous integration environment is being used.
 using_appveyor() reports whether AppVeyor is being used
 using_circle_ci() reports whether CircleCI is being used
 using_codebuild() reports whether AWS CodeBuild is being used
 using_github_actions() reports whether GitHub Actions is being used
 using_gitlab_ci() reports whether GitLab CI/CD is being used
 using_jenkins() reports whether Jenkins is being used
 using_travis_ci() reports whether Travis CI is being used

Usage

```
using_ci(service = NULL)

using_appveyor()

using_circle_ci()

using_codebuild()

using_github_actions()

using_gitlab_ci()

using_jenkins()

using_travis_ci()
```

Arguments

| | |
|---------|--|
| service | If provided, a particular CI service is checked. If not, the commonly-used CI environment variable is checked. |
|---------|--|

Value

A logical value

Examples

```
using_ci()
using_appveyor()
using_circle_ci()
using_codebuild()
using_github_actions()
using_gitlab_ci()
using_jenkins()
using_travis_ci()
```

using_conda

Determine whether Conda environment is being used

Description

Determine whether Conda environment is being used

Usage

```
using_conda(env = NULL)
```

Arguments

env Optional environment name to compare against

Value

A logical value

Examples

```
# Check if Conda is being used (regardless of environment name)
using_conda()

# Check if the 'dev' Conda environment is being used
using_conda(env = "dev")
```

| | |
|--------------|---|
| using_config | <i>Detect whether a configuration is currently active</i> |
|--------------|---|

Description

Environment-specific configuration values can be used to alter code's behavior in different environments. The `config` package uses the `R_CONFIG_ACTIVE` environment variable to specify the active environment. If `R_CONFIG_ACTIVE` is not set, the "default" configuration is used.

Usage

```
using_config(config)
```

Arguments

config Configuration name

Value

A logical value

Examples

```
# See whether the default configuration is being used
using_config("default")

# See whether the "production" configuration is being used
using_config("production")
```

| | |
|-----------------|--------------------------------------|
| using_container | <i>Detect container environments</i> |
|-----------------|--------------------------------------|

Description

Detect container environments

Usage

```
using_container()
```

```
using_docker_container()
```

```
using_podman_container()
```

```
using_kubernetes()
```

Value

A logical value

Examples

```
using_container()  
using_docker_container()  
using_podman_container()  
using_kubernetes()
```

| | |
|------------|--------------------|
| using_covr | <i>Detect covr</i> |
|------------|--------------------|

Description

Detect covr

Usage

```
using_covr()
```

Value

A logical value

Examples

```
using_covr()
```

`using_cpu`*Processor Checks*

Description

`using_cpu()` checks whether the machine uses the given type of processor or not.

`using_x86_cpu()` checks whether the machine uses an x86 processor

`using_arm_cpu()` checks whether the machine uses an ARM-based processor

Usage

```
using_cpu(arch = c("arm", "x86"))
```

```
using_x86_cpu()
```

```
using_arm_cpu()
```

Arguments

`arch` CPU architecture name. Either "arm" or "x86".

Value

A logical value

Examples

```
using_arm_cpu()
```

```
using_x86_cpu()
```

```
using_arm_cpu()
```

`using_databricks`*Detect Databricks Runtime Environment*

Description

Detect Databricks Runtime Environment

Usage

```
using_databricks()
```

Value

A logical value

Examples

```
using_databricks()
```

| | |
|--------------|--|
| using_envvar | <i>Determine whether an environment variable is being used</i> |
|--------------|--|

Description

Determine whether an environment variable is being used

Usage

```
using_envvar(x, value = NULL)
```

Arguments

| | |
|-------|-----------------------------------|
| x | Environment variable |
| value | Optional value to compare against |

Value

A logical value

Examples

```
using_envvar("NOT_CRAN")  
using_envvar("CI", "true")
```

| | |
|-----------------|-------------------------|
| using_nix_shell | <i>Detect Nix Shell</i> |
|-----------------|-------------------------|

Description

using_nix_shell() checks whether code is running within an environment defined by a **Nix expression**.

Usage

```
using_nix_shell(pure = NULL)
```

Arguments

| | |
|------|--|
| pure | Whether or not the environment is pure, meaning most environment variables have been cleared before the shell started. |
|------|--|

Value

A logical value

Examples

```
# Check for Nix
using_nix_shell()

# Check for Nix in a pure environment
using_nix_shell(pure = TRUE)
```

using_option

Determine whether a global option is being used

Description

Determine whether a global option is being used

Usage

```
using_option(x, value = NULL)
```

Arguments

| | |
|-------|-----------------------------------|
| x | Option name |
| value | Optional value to compare against |

Value

A logical value

Examples

```
using_option("width")

using_option("boot.parallel", value = "multicore")
```

| | |
|----------|------------------------------------|
| using_os | <i>Tests for operating systems</i> |
|----------|------------------------------------|

Description

Tests for operating systems

Usage

```
using_os(os = c("linux", "macos", "solaris", "windows"))
```

```
using_linux()
```

```
using_macos()
```

```
using_solaris()
```

```
using_windows()
```

Arguments

os Operating system name. One of "linux", "macos", "solaris", or "windows"

Value

A logical value

Examples

```
using_os(os = "linux")
using_linux()
using_macos()
using_solaris()
using_windows()
```

| | |
|--------------|-------------------------|
| using_quarto | <i>Quarto documents</i> |
|--------------|-------------------------|

Description

using_quarto() determines whether code is being run within a Quarto document

Usage

```
using_quarto()
```

Value

A logical value

Note

The `is_using_quarto()` function in the `quarto` package can be used to determine whether you are in a quarto project.

Examples

```
using_quarto()
```

| | |
|---------------|-----------------------------|
| using_rstudio | <i>RStudio environments</i> |
|---------------|-----------------------------|

Description

These functions enable you to determine whether code is being run in the presence of various features of the RStudio IDE and other Posit products.

`using_rstudio()` determines whether code is being run in RStudio. `using_rstudio_desktop()`, `using_rstudio_server()`, and `using_rstudio_workbench()` are helpers to determine whether those specific environments are being used.

`using_rstudio_jobs()` determines whether code is running as an **RStudio Job**

`using_rstudio_dark_theme()` determines whether a dark theme is being used

`using_posit_connect()` checks whether **Posit Connect** is being used

Usage

```
using_rstudio(mode = "any")
```

```
using_rstudio_desktop()
```

```
using_rstudio_server()
```

```
using_rstudio_workbench()
```

```
using_rstudio_jobs()
```

```
using_rstudio_dark_theme()
```

```
using_posit_connect()
```

Arguments

`mode` Optional argument specifying whether RStudio is being used in "desktop" mode or in "server"/"workbench" mode.

Value

A logical value

See Also

<https://docs.posit.co/connect/user/content-settings/#content-vars>

Examples

```
using_rstudio()  
using_rstudio_jobs()  
using_rstudio_dark_theme()  
using_posit_connect()
```

using_r_version *R session information*

Description

Get information about the R environment being used.

using_r_version() determines whether or not a particular version of R is being used.

using_latest_r_version() determines whether or not the latest stable version of R is being used.

using_interactive_session() determines whether or not R is being run interactively.

Usage

```
using_r_version(ver)  
  
using_latest_r_version()  
  
using_interactive_session()
```

Arguments

ver Version string

Value

A logical value

Examples

```
using_r_version(ver = "4.3.0")  
using_latest_r_version()  
using_interactive_session()
```

| | |
|----------------|------------------------|
| using_testthat | <i>Detect testthat</i> |
|----------------|------------------------|

Description

Detect testthat

Usage

```
using_testthat()
```

Value

A logical value

Examples

```
using_testthat()
```

| | |
|--------------|---|
| using_vscode | <i>Detect whether code is running in Visual Studio Code</i> |
|--------------|---|

Description

Detect whether code is running in Visual Studio Code

Usage

```
using_vscode()
```

Value

A logical value

Examples

```
using_vscode()
```

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